

## AMENDMENTS TO THE SPECIFICATION

**-Please amend the paragraph beginning on page 2, line 8 (i.e., after the title: SUMMARY OF INVENTION) as follows:**

Now in accordance with the present invention, a method is provided for phase noise suppression in a receiver section of an OFDM based WLAN operating in accordance with IEEE standard 802.11(a). The null subcarrier set  $S_N$  from Fast Fourier Transform (FFT) is used to estimate ICI (Inter-carrier interference) plus noise energy, and the pilot subcarrier set  $S_P$  from Fast Fourier Transform is used to estimate CPE (Common Phase Error). These estimates are applied to the Minimum Mean Square Error (MMSE) equalization of the data subcarrier set  $S_D$ . Preferably, the said pilot-carrier subcarrier  $S_P$  set is taken from MMSE (minimum-mean squared-equalization) equalization and data detection block of the circuitry as a first decision and fed back in a loop to the CPE estimator, to further improve the CPE estimate.